Cancel without prejudice claims 15 and 20.

Please amend claims 1, 2, 4, 7, 11, 12, 14, 18 and 19, and add new claims 21 and 22, as follows:



1. (Amended) Isolated polypeptides having antifreeze activity which are obtained from carrots and which have an apparent molecular weight on SDS-PAGE of 36 dKa and isoforms or derivatives thereof which still posess antifreeze activity.



2. (Twice amended) Isolated polypeptides having antifreeze activity comprising one or more fragments (A-E) of the amino acid sequence as follows:

- (A) LEU-PRO-ASN-LEU-PHE-GLY-LYS (SEQ ID NO. 1)
- (B) ILE-PRO-GLU-GLU-ILE-SER-ALA/LEU-LYS (SEQ ID NO. 2)
- (C) LEU-THR-X-LEU-ASP-LEU-SER-PHE-ASN-LYS (SEQ ID NO. 3)
- (D) SER-LEU-ARG-LEU-SER-SER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-PRO-GLN-LEU-X-LYS (SEQ ID NO. 4)
- (E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS (SEQ ID NO. 5), wherein X is any amino acid.



4. (Twice amended) Isolated polypeptides having antifreeze activity having an amino acid sequence as represented in SEQ ID NO. 7 and isoforms and derivatives thereof which still possess antifreeze activity.



7. (Twice amended) A method of obtaining polypeptides according to claim 2 whereby the polypeptide is isolated from cold acclimatised carrots.



- 11. (Twice amended) An isolated polypeptide which has antifreeze activity that is immunologically related to the polypeptide of claim 2 as determined by its cross reactivity with an antibody capable of specifically binding to said polypeptide.
- 12. (Twice amended) A food product comprising a polypeptide of claim 2 with the proviso that the food product is not a carrot.

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- 14 (Twice amended) A method of producing a food product comprising an antifreeze polypeptide according to claim 2, comprising the step of
- (a) adding to the food product a composition comprising said antifreeze polypeptide.



- 18. (Amended) An isolated polypeptide that is immunologically related to the polypeptide of claim 2 as determined by its cross reactivity with an antibody capable of specifically binding said polypeptide.
- 19. (Amended) A food product comprising a polypeptide according to claim 2 with the proviso that the food product is not a carrot containing the polypeptide at naturally occurring levels.



- 21. (New) A food product comprising a polypeptide having antifreeze activity comprising one or more fragments (A-E) of the amino acid sequence as follows:
- (A) LEU-PRO-ASN-LEU-PHE-GLY-LYS (SEQ ID NO. 1)
- (B) ILE-PRO-GLU-GLU-ILE-SER-ALA-LEU-LYS (SEQ ID NO. 2)
- (C) LEU-THR-X-LEU-ASP-LEU-SER-PHE-ASN-LYS (SEQ ID NO. 3)

- (D) SER-LEU-ARG-LEU-SER-\$ER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-PRO-GLN-LEU-X-LYS (SEQ ID NO. 4)
- (E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS (SEQ ID NO. 5), wherein the food product is a frozen confectionery product or a frozen vegetable with the proviso that the food product is not a carrot, wherein X is any amino acid.
- 22. (New) A method of producing a food product other than carrot comprising an antifreeze polypeptide, comprising the step of:

in situ production of said antifreeze polypeptide.